

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE  
(REV. 7-2005)ATTORNEY'S DOCKET NUMBER  
CT/03-012.PCT.USTRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371U.S. APPLICATION NO. (If known, see 37 CFR 1.5)  
To be Assigned 10/576333INTERNATIONAL APPLICATION NO.  
PCT/US2004/035135INTERNATIONAL FILING DATE  
25 October 2004PRIORITY DATE CLAIMED  
24 October 2003TITLE OF INVENTION  
SYSTEM FOR DETECTING FLUID CHANGES AND SENSORING DEVICES THEREFOR

## APPLICANT(S) FOR DO/EO/US

Bouton, et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1.  This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2.  This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3.  This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4.  The US has been elected (Article 31).
5.  A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a.  is attached hereto (required only if not communicated by the International Bureau).
  - b.  has been communicated by the International Bureau.
  - c.  is not required, as the application was filed in the United States Receiving Office (RO/US).
6.  An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))
  - a.  is attached hereto.
  - b.  has been previously submitted under 35 U.S.C. 154(d)(4).
7.  Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a.  are attached hereto (required only if not communicated by the International Bureau).
  - b.  have been communicated by the International Bureau.
  - c.  have not been made; however, the time limit for making such amendments has NOT expired.
  - d.  have not been made and will not be made.
8.  An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9.  An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10.  An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).
11.  A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12.  A copy of the International Search Report (PCT/ISA/210).

## Items 13 to 23 below concern document(s) or information included:

13.  An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14.  An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15.  A **FIRST** preliminary amendment.
16.  A **SECOND** or **SUBSEQUENT** preliminary amendment.
17.  A substitute specification.
18.  A power of attorney and/or change of address letter.
19.  A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
20.  A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21.  A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22.  Express Mail Label No. EV72442590SUS

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>107570335</b> To be Assigned	INTERNATIONAL APPLICATION NO. <b>US2004/035135</b>	ATTORNEY'S DOCKET NUMBER <b>CT/03-012.PCT.US</b>																																																																																																								
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<table border="1"> <thead> <tr> <th colspan="2">The following fees have been submitted:</th> <th>CALCULATIONS</th> <th>PTO USE</th> </tr> </thead> <tbody> <tr> <td colspan="2">24. <input checked="" type="checkbox"/> Basic national fee .....</td> <td>\$300</td> <td>\$ 300.00</td> </tr> <tr> <td colspan="2">25. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article</td> <td>\$0</td> <td>\$200.00</td> </tr> <tr> <td colspan="2">All other situations.....</td> <td>\$200</td> <td></td> </tr> <tr> <td colspan="2">26. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). . .</td> <td>\$0</td> <td></td> </tr> <tr> <td colspan="2">Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority. ....</td> <td>\$100</td> <td>\$100.00</td> </tr> <tr> <td colspan="2">International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB. ....</td> <td>\$400</td> <td></td> </tr> <tr> <td colspan="2">All other situations.....</td> <td>\$500</td> <td></td> </tr> <tr> <td colspan="2"><b>TOTAL OF 24, 25 and 26 =</b></td> <td>\$</td> <td>\$600.00</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(l)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.</td> <td>\$</td> <td></td> </tr> <tr> <td>Total Sheets</td> <td>Extra Sheets</td> <td>Number of each additional 50 or fraction thereof (round up to a whole)</td> <td>RATE</td> </tr> <tr> <td>47 - 100 =</td> <td>0 /50 =</td> <td>0</td> <td>x \$250.00</td> </tr> <tr> <td colspan="4">Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).</td> </tr> <tr> <td>CLAIMS</td> <td>NUMBER FILED</td> <td>NUMBER EXTRA</td> <td>RATE</td> </tr> <tr> <td>Total claims</td> <td>48 - 20 =</td> <td>28</td> <td>x \$50.00</td> </tr> <tr> <td>Independent claims</td> <td>6 - 3 =</td> <td>3</td> <td>x \$200.00</td> </tr> <tr> <td colspan="2">MULTIPLE DEPENDENT CLAIMS (if applicable)</td> <td><input type="checkbox"/> +</td> <td>\$360.00</td> </tr> <tr> <td colspan="2"><b>TOTAL OF ABOVE CALCULATIONS =</b></td> <td>\$</td> <td>\$2,600.00</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.</td> <td>\$</td> <td>\$0.00</td> </tr> <tr> <td colspan="2"><b>SUBTOTAL =</b></td> <td>\$</td> <td>\$2,600.00</td> </tr> <tr> <td colspan="2">Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).</td> <td>\$</td> <td>\$0.00</td> </tr> <tr> <td colspan="2"><b>TOTAL NATIONAL FEE =</b></td> <td>\$</td> <td>\$2,600.00</td> </tr> <tr> <td colspan="2">Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +</td> <td>\$</td> <td>\$80.00</td> </tr> <tr> <td colspan="2"><b>TOTAL FEES ENCLOSED =</b></td> <td>\$</td> <td>2,680</td> </tr> <tr> <td colspan="2"></td> <td>Amount to be</td> <td>\$</td> </tr> <tr> <td colspan="2"></td> <td>Amount to be</td> <td>\$</td> </tr> </tbody> </table>			The following fees have been submitted:		CALCULATIONS	PTO USE	24. <input checked="" type="checkbox"/> Basic national fee .....		\$300	\$ 300.00	25. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article		\$0	\$200.00	All other situations.....		\$200		26. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). . .		\$0		Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority. ....		\$100	\$100.00	International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB. ....		\$400		All other situations.....		\$500		<b>TOTAL OF 24, 25 and 26 =</b>		\$	\$600.00	<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(l)). 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10/57633

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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a.  A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.

b.  Please charge my Deposit Account No. 13-2530 in the amount of \$ \$2,680.00 to cover the above fees.  
A duplicate copy of this sheet is enclosed.

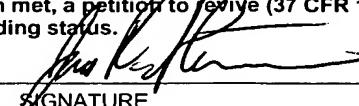
c.  The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 13-2530. A duplicate copy of this sheet is enclosed.

d.  Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

James R. Stevenson  
MEDRAD, Inc.  
One Medrad Drive  
Indianola, PA 15051

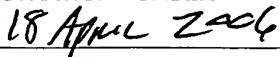
  
SIGNATURE

James R. Stevenson

NAME

38,755

REGISTRATION NUMBER



DATE

**CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)**

Applicant(s): Bouton, et al.

APR 2006

Docket No.

CT/03-012.PCT.US

Application No.  
**10/780,953**  
TBA

Filing Date

Examiner

TBA

Customer No.

21140

Group Art Unit

TBA

Invention: SYSTEM FOR DETECTING FLUID CHANGES AND SENSORING DEVICES THEREFOR

I hereby certify that the following correspondence:

Transmittal Letter to the US Designated/Elected Office including Fee Calculation Sheet (in duplicate), Certificate of Mailing by Express Mail, Executed Declaration, Recordation Sheet & Assignment from the Inventors to Battelle, Recordation Sheet & Assignment from Battelle to MEDRAD, Inc., Information Disclosure Statement & Form 1449 . including copies of Cited References, Copy of the published International Application including 8 pages of Drawings

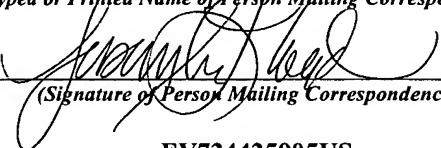
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is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

April 18, 2006  
(Date)

Susan M. Lloyd

(Typed or Printed Name of Person Mailing Correspondence)

  
(Signature of Person Mailing Correspondence)

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10/576333

Docket No.: CT/03-012.PCT.US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
Bouton et al. )  
Serial No.: Unassigned ) Art Unit: To be Assigned  
Filed: April 18, 2006 ) Examiner: To be Assigned  
For: SYSTEM FOR DETECTING FLUID )  
CHANGES AND SENSORING DEVICES )  
THEREFOR )

## CUSTOMER NUMBER AND CORRESPONDENCE ADDRESS

Mail Stop Patent Application  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Please assign the following customer number and correspondence address to the enclosed patent application:

Customer Number: 21140

Correspondence Address: James R. Stevenson  
Medrad, Inc.  
One Medrad Drive  
Indianola, PA 15051

Phone: (412) 767-2400 x3021  
Fax: (412) 767-8899

104-270533

If there are any questions, please do not hesitate to contact the undersigned  
attorney of record.

Respectfully submitted,

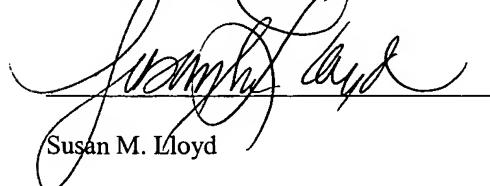


Dated: April 18, 2006

James R. Stevenson  
Reg. No. 38,755  
Medrad, Inc.  
One Medrad Drive  
Indianola, PA 15051  
(412) 767-2400 x3021

CERTIFICATE OF EXPRESS MAILING

Date of Deposit: April 18 , 2006. Mailing Label No. EV724425905US I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.



Susan M. Lloyd